

NOTICE AND NECESSARY INFORMATION (NANI)

This form is to assist compliance with the bulk sewage (biosolids) notification requirements [503.12(f)]. Please note, however, that if the biosolids meet the exceptional quality criteria, then the notification requirements do not apply. This form can be used by preparers of biosolids to transmit information to land appliers and also by land appliers to transmit information to land owners or lease holders.

Facility and Biosolids Type:: GWRP Compliance

Monitoring Period: 11/1/15 To: 12/31/15

| Name | Concentration (mg/Kg) Dry Weight | Pollutant Concentrations (Table 3, 40 CFR 503.13) Monthly Average | Ceiling Concentrations* (Table 1, 40 CFR 503.13) Daily Maximum |
|-----------------|----------------------------------|---|--|
| Arsenic | < 24 | 41 | 75 |
| Cadmium | < 2.4 | 39 | 85 |
| Chromium | 68 | 1200 | 3000 |
| Copper | 340 | 1500 | 4300 |
| Lead | < 24 | 300 | 840 |
| Mercury | 0.56 | 17 | 57 |
| Molybdenum | 18 | N/A** | 75 |
| Nickel | 29 | 420 | 420 |
| Nitrogen Concen | 51300 | N/A | N/A |
| Selenium | 30 | 100 | 100 |
| Zinc | 790 | 2800 | 7500 |

* Biosolids may not be land applied if any pollutant exceeds these values.

** EPA has temporarily removed molybdenum limits from Table 3, Table 2 and Table

B. Pathogen Reduction (40CFR 503.32) -- Please indicate the level achieved

☐ Class A

☒ Class B

C. Vector Attraction Reduction (40CFR 503.33) -- Please indicate the option performed

☒ Option 1

☐ Option 2

☐ Option 3

☐ Option 4

☐ Option 5

☐ Option 6


☐ Option 7

☐ Option 8

☐ No vector attraction reduction options were performed

D. Certification

I certify, under penalty of law, that the information that will be used to determine compliance with the Class B pathogen requirements in §503.32(b) and the vector attraction reduction requirement in §503.33(b)(1) was prepared under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate this information. I am aware that there are significant penalties for false certification including the possibility of fine and imprisonment.

| | |
|---|---|
| A. Name and Official Title Jennifer Hetherington, Wastewater Compliance Specialist | B. Area Code and Telephone Number 480-644-3890 |
| C. Signature  | D. Date Signed 11/30/15 |

Laboratory Sample ID: 151105005

**CITY OF MESA COMPLIANCE LABORATORY****640 NORTH MESA DRIVE MESA, ARIZONA 85211**

Environmental Laboratory License AZ0410

LABORATORY SUPERVISOR: MATTHEW REXING Ph (480)644-5403

QUALITY ASSURANCE COORDINATOR: Amy Cerwinske Ph (480)644-6901

Attn: Jennifer Hetherington

OrderID: 151105005

CollectDate: 11/5/2015

Collection Time: 5:00:00 AM

Collector: R. Diala

Sample Number: 15110142

ReceiveDate: 11/5/2015

Customer Sample#:

Project ID: GWRP Biosolids

Site: GWRP Biosolids

RESULTS

| Parameter | Method No | MRL | Qualifier | Result | Analysis Date | Analyst |
|---------------------------------|-------------|------|-----------|-----------------|---------------|---------|
| Nitrogen, Ammonia Total | SM4500-NH3D | 234 | D2 | 6460 mg/Kg-dry | 11/9/2015 | PSERIA |
| Cyanide, Total | EPA 9014 | 37 | | < 37 mg/Kg-dry | 11/12/2015 | TAL |
| Arsenic, Total | EPA 6010B | 24 | | < 24 mg/Kg-dry | 11/6/2015 | TAL |
| Cadmium, Total | EPA 6010B | 2.4 | | < 2.4 mg/Kg-dry | 11/6/2015 | TAL |
| Chromium, Total | EPA 6010B | 9.5 | | 68 mg/Kg-dry | 11/6/2015 | TAL |
| Copper, Total | EPA 6010B | 24 | | 340 mg/Kg-dry | 11/6/2015 | TAL |
| Lead, Total | EPA 6010B | 24 | | < 24 mg/Kg-dry | 11/6/2015 | TAL |
| Molybdenum, Total | EPA 6010B | 9.5 | | 18 mg/Kg-dry | 11/6/2015 | TAL |
| Nickel, Total | EPA 6010B | 9.5 | | 29 mg/Kg-dry | 11/6/2015 | TAL |
| Selenium, Total | EPA 6010B | 24 | | 30 mg/Kg-dry | 11/6/2015 | TAL |
| Silver, Total | EPA 6010B | 12 | | < 12 mg/Kg-dry | 11/6/2015 | TAL |
| Zinc, Total | EPA 6010B | 47 | | 790 mg/Kg-dry | 11/6/2015 | TAL |
| Mercury, Total | EPA 7471A | 0.44 | | 0.56 mg/Kg-dry | 11/9/2015 | TAL |
| Nitrogen, Nitrate-Nitrite Total | EPA 9056 | 9.6 | | < 9.6 mg/Kg-dry | 11/13/2015 | TAL |
| Nitrogen, Kjeldahl Total | SM4500-Norg | 972 | | 51300 mg/Kg-dry | 11/17/2015 | PSERIA |
| Nitrogen, Total | Calculation | 982 | | 51300 mg/Kg-dry | 11/18/2015 | mrexing |
| Paint Filter | EPA 9095B | | | abs pres/abs | 11/9/2015 | PSERIA |
| Percent Moisture | SM2540G | 0.1 | | 79 % | 11/5/2015 | TAL |
| Percent Soil | SM2540G | 0.1 | | 21 % | 11/5/2015 | TAL |
| pH | EPA 9045D | 1.68 | | 8.19 S.U. | 11/9/2015 | PSERIA |
| Phosphate as P, Total | SM4500-P | 4537 | D2 M3 R1 | 28800 mg/Kg-dry | 11/17/2015 | PSERIA |
| Solids, Total | SM2540G | 1 | | 21.4 % | 11/9/2015 | NSILIDE |

QUALIFIERS

D2 Sample diluted due to high concentration.

COMMENTS

As and Cu were analyzed on 11/11/15.

The NO3/NO2 RL was changed to the NO3 RL (4.8 mg/Kg) and NO2 RL (4.8 mg/Kg) added together (9.6 mg/Kg). The NO3 and NO2 results from the sub contract lab were both flagged E4 for being below the RL and above the MDL and are estimated concentrations.

M3 The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The associated blank spike recovery was acceptable. R1 RPD/RSD exceeded the method acceptance limit. RPD is high due to matrix.

REVIEWED BY:

Amy L Czerwinski

Date Signed: 11/30/2015



Chain of Custody

Project Manager: Jennifer Hetherington

| | | | |
|--------------------------------|----------------|---------------------------|--|
| Order# 15105005 | | Sampled By: JS / RD | |
| Customer Name: GWRP Compliance | | Date Sampled: 11/4-5/2015 | |
| Project Name: GWRP BIOSOLIDS | | Time Sampled: 0500 | |
| | | Receiving Temp: 2.0 C | |
| Sample Number 15110142 | | Comments: | |
| Analysis | GWRP Biosolids | # of Bottles | Metals: Arsenic, Cadmium, Chromium, Copper, Lead, Molybdenum, Nickel, Selenium, Silver, Zinc |
| Paint Filter | X | | |
| Mercury - SW7471A | X | | |
| Metals - SW6010B | X | | |
| pH | X | | |
| Temperature | X | | |
| Ammonia - 4500NH3D | X | | Time Sampled: JS |
| Nitrate-N - EPA9056 | X | | 2300 RD |
| Nitrite-N - EPA9056 | X | | 2400 RD |
| TKN - 4500 N ORG C | X | | 0100 RD |
| Phosphorus - 4500-PB,E | X | | 0200 RD |
| % Moisture | X | | 0300 RD |
| % Solids | X | | 0400 RD |
| Cyanide Total - 9014 | X | | 0500 RD |
| Total Nitrogen | X | | |
| ICP -Selenium TCLP | X | | |
| | | 2 | |

| | | | |
|---------------------------|---------------|---------------------------|---------------|
| Sampled&Relinquished by: | | Sampled&Relinquished by: | |
| Signature: [Signature] | Time: 0600 | Signature: | Time: |
| Printed Name: ROLLY DIAZ | Date: 11/5/15 | Printed Name: | Date: |
| Company Name: | | Company Name: | |
| Received by: | | Received by: | |
| Signature: [Signature] | Time: 0600 | Signature: | Time: |
| Printed Name: [Signature] | Date: 11/5/15 | Printed Name: | Date: |
| Company Name: | | Company Name: | |
| Sampled&Relinquished by: | | Sampled&Relinquished by: | |
| Signature: [Signature] | Time: 1005 | Signature: | Time: |
| Printed Name: [Signature] | Date: 11/5/15 | Printed Name: | Date: |
| Company Name: | | Company Name: | |
| Received by: | | Received by: | |
| Signature: [Signature] | Time: | Signature: [Signature] | Time: 1005 |
| Printed Name: | Date: | Printed Name: [Signature] | Date: 11/5/15 |
| Company Name: | | Company Name: | |